

Title (en)

HEAT TRANSPORT DEVICE WITH DIPHASIC FLUID

Title (de)

WÄRMETRANSPORTVORRICHTUNG MIT ZWEIPHASIGER FLÜSSIGKEIT

Title (fr)

DISPOSITIF DE TRANSPORT DE CHALEUR À FLUIDE DIPHASIQUE

Publication

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Application

**EP 14704781 A 20140214**

Priority

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Abstract (en)

[origin: WO2014125064A1] The invention relates to a heat transport device with a diphasic working fluid contained in a general closed circuit, including an evaporator (1) having a microporous body (10) suitable for providing capillary pumping of liquid phase fluid; a condenser (2); a tank (3) having an inner space (30), with a liquid portion (6) and a gas portion (7); and an inlet/outlet (31) arranged at the liquid portion, wherein the volume of the liquid portion can vary between a minimum volume (Vmin) and a maximum volume (Vmax), characterized in that the gas portion (7) of the tank contains the vapor phase of the working fluid, at a first partial pressure (P1), and a non-condensable auxiliary gas (8) at a second partial pressure (P2), wherein the second partial pressure is greater than the first partial pressure, at least when the liquid portion (6) is at the minimum volume thereof.

IPC 8 full level

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